

Regional HIV/AIDS Epidemiologic Profile of Worcester County, Massachusetts: FY 2008

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2007 Worcester County, Massachusetts

	N	%
People Living with HIV/AIDS	1,506	61%
People Reported with HIV or AIDS who are Deceased	977	39%
Total Number of People Reported with HIV Infection or AIDS	2,483	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 2. Average annual rate of HIV infection diagnosis from 2004 to 2006 and rate of people living with HIV/AIDS on 12/31/07¹: Worcester County, Massachusetts

Average annual HIV diagnosis rate from 2004–2006	Average Rate per 100,000	Average Number of HIV Diagnoses
Worcester County, MA	10 per 100,000	76
Massachusetts Total	13 per 100,000	857
Rate of people living with HIV/AIDS on 12/31/07	Rate per 100,000	Number of People Living with HIV/AIDS
Worcester County, MA	201 per 100,000	1,507
Massachusetts Total	267 per 100,000	16,977

¹ Population sizes for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 1999–2006, Worcester County, Massachusetts

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
1999	1,141	40	91
2000	1,198	31	88
2001	1,227	38	67
2002	1,292	43	108
2003	1,356	36	100
2004	1,399	41	84
2005	1,440	33	74
2006	1,485	26	71

¹ Number of People living with HIV/AIDS on 12/31 of each year

² Reflects year of diagnosis for HIV infection among all individuals reported with HIV infection, with or without an AIDS diagnosis
Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 4. People diagnosed with HIV infection from 2004–2006¹ and people living with HIV/AIDS on December 31, 2007 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Worcester County, Massachusetts

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	142	62%	933	62%
Female	87	38%	574	38%
Place of Birth:	N	%	N	%
US	118	52%	948	63%
Puerto Rico/US Dependency ²	38	17%	309	21%
Non-US	73	32%	250	17%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	87	38%	666	44%
Black (non-Hispanic)	73	32%	317	21%
Hispanic	66	29%	504	33%
Other/Undetermined ³	3	1%	20	1%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	55	24%	314	21%
Injection Drug Use (IDU)	51	22%	518	34%
MSM/IDU	2	1%	46	3%
Heterosexual Sex	34	15%	264	18%
Other	2	1%	56	4%
Total Undetermined	85	37%	309	21%
• Presumed Heterosexual Sex ⁴	71	31%	254	17%
• Undetermined ⁵	14	6%	55	4%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2007	
Under 13	1	<1%	10	1%
13 to 19	6	3%	24	2%
20 to 24	20	9%	20	1%
25 to 29	20	9%	51	3%
30 to 34	32	14%	96	6%
35 to 39	39	17%	197	13%
40 to 44	39	17%	298	20%
45 to 49	36	16%	337	22%
50 to 54	16	7%	243	16%
55 to 59	8	3%	119	8%
60+	12	5%	112	7%
Total	229	100%	1,507	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS

² Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

³ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

⁴ Heterosexual sex with partners with unknown risk and HIV status

⁵ Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 5. People living with HIV/AIDS on December 31, 2007 by gender and race/ethnicity: Worcester County, Massachusetts

Race/Ethnicity:	Male		Female	
	N	%	N	%
White Non-Hispanic	463	50%	203	35%
Black Non-Hispanic	160	17%	157	27%
Hispanic	296	32%	208	36%
Other/Undetermined ¹	14	2%	6	1%
Total	933	100%	574	100%

¹ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 6. People living with HIV/AIDS on December 31, 2007 by gender and exposure mode: Worcester County, Massachusetts

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	314	34%	N/A	N/A
Injection drug use (IDU)	323	35%	195	34%
MSM/IDU	46	5%	N/A	N/A
Heterosexual sex	71	8%	193	34%
Other	34	4%	22	4%
Total Undetermined	145	16%	164	29%
• Presumed heterosexual sex ¹	112	12%	142	25%
• Undetermined ²	33	4%	22	4%
Total	933	100%	574	100%

¹ Heterosexual sex with partners with unknown risk and HIV status

² Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up; N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Worcester County, Massachusetts, before 1999, 1999–2006¹

	Male		Female		Total
	N	%	N	%	
< 1999	1,196	67%	580	33%	1,776
1999	61	67%	30	33%	91
2000	56	64%	32	36%	88
2001	48	72%	19	28%	67
2002	62	57%	46	43%	108
2003	53	53%	47	47%	100
2004	45	54%	39	46%	84
2005	53	72%	21	28%	74
2006 ²	44	62%	27	38%	71

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Worcester County, Massachusetts, before 1999, 1999–2006¹

	White NH		Black NH		Hispanic		Other/ Undetermined ²		Total
	N	%	N	%	N	%	N	%	
< 1999	931	52%	223	13%	612	34%	10	1%	1,776
1999	40	44%	15	16%	34	37%	2	2%	91
2000	35	40%	24	27%	29	33%	0	0%	88
2001	26	39%	14	21%	24	36%	3	4%	67
2002	36	33%	35	32%	34	31%	3	3%	108
2003	38	38%	33	33%	26	26%	3	3%	100
2004	35	42%	27	32%	22	26%	0	0%	84
2005	31	42%	20	27%	22	30%	1	1%	74
2006 ³	21	30%	26	37%	22	31%	2	3%	71

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

³ 2006 data are preliminary

NH = Non-Hispanic

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Worcester County, Massachusetts, before 1999, 1999–2006¹

	US		Puerto Rico/ US Dependency ²		Non-US		Total
	N	%	N	%	N	%	
< 1999	1,269	71%	421	24%	86	5%	1,776
1999	57	63%	20	22%	14	15%	91
2000	48	55%	21	24%	19	22%	88
2001	33	49%	14	21%	20	30%	67
2002	57	53%	16	15%	35	32%	108
2003	54	54%	16	16%	30	30%	100
2004	45	54%	13	15%	26	31%	84
2005	39	53%	13	18%	22	30%	74
2006 ³	34	48%	12	17%	25	35%	71

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

³ 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Worcester County, Massachusetts, before 1999, 1999–2006¹

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ²		Undeter- mined ³		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
<1999	370	21%	873	49%	76	4%	249	14%	82	5%	94	5%	32	2%	1,776
1999	12	13%	33	36%	6	7%	19	21%	1	1%	17	19%	3	3%	91
2000	23	26%	16	18%	1	1%	22	25%	4	5%	21	24%	1	1%	88
2001	14	21%	17	25%	1	1%	18	27%	0	0%	14	21%	3	4%	67
2002	17	16%	25	23%	2	2%	14	13%	3	3%	35	32%	12	11%	108
2003	22	22%	19	19%	4	4%	14	14%	3	3%	30	30%	8	8%	100
2004	15	18%	24	29%	1	1%	13	15%	1	1%	24	29%	6	7%	84
2005	22	30%	17	23%	1	1%	8	11%	1	1%	21	28%	4	5%	74
2006 ⁴	18	25%	10	14%	0	0%	13	18%	0	0%	26	37%	4	6%	71

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Heterosexual sex with partners with unknown risk and HIV status

³ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

⁴ 2006 data are preliminary

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Worcester County, Massachusetts, 1999–2006¹

	HIV and AIDS diagnosed within 2 months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within 2 months
Year:	N	N	%
1999	21	91	23%
2000	20	88	23%
2001	22	67	33%
2002	32	108	30%
2003	25	100	25%
2004	23	84	27%
2005	24	74	32%
2006	25	71	35%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Worcester County, Massachusetts, 2004–2006¹

	HIV and AIDS diagnosed within 2 months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within 2 months
Gender:	N	N	%
Male	54	142	38%
Female	18	87	21%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	29	87	33%
Black (non-Hispanic)	21	73	29%
Hispanic	20	66	30%
Other/Undetermined ²	2	3	67%
Place of Birth:	N	N	%
US	34	118	29%
Puerto Rico/US Dependencies ³	12	38	32%
Non-US	26	73	36%
Total	72	229	31%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

³ Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08